EE 483 Communications Systems I
Homework Set 9

1. (25/100) Exercise 1.12 from your Textbook. Recall that the Fourier transform of the triangular pulse $\text{triang}(t) \triangleq \Lambda(t) = \begin{cases} t+1, & -1 \leq t < 0 \\ -t+1, & 0 \leq t < 1 \\ 0, & \text{otherwise.} \end{cases}$ is $sinc^2(f)$.

2. (5/100) What is the mean of a random variable that is uniformly-distributed between $[-1 \quad 1]$?